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TECH CENTER 1600/2900

# RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,497A

DATE: 09/30/2003

TIME: 11:17:54

Input Set : A:\012889-086.ST25.txt

Output Set: N:\CRF4\09302003\I938497A.raw

4 <110> APPLICANT: Wastfelt, Maria K. Boden  
5 Flock, Jan-Ingmar  
7 <120> TITLE OF INVENTION: Fibrinogen Binding Protein  
9 <130> FILE REFERENCE: 012889-086  
11 <140> CURRENT APPLICATION NUMBER: US 09/938,497A  
12 <141> CURRENT FILING DATE: 2001-08-27  
14 <150> PRIOR APPLICATION NUMBER: US 09/276,141  
15 <151> PRIOR FILING DATE: 1999-03-25  
17 <150> PRIOR APPLICATION NUMBER: PCT/SE93/00759  
18 <151> PRIOR FILING DATE: 1993-09-20  
20 <150> PRIOR APPLICATION NUMBER: SE 9302955-01  
21 <151> PRIOR FILING DATE: 1993-09-13  
23 <150> PRIOR APPLICATION NUMBER: SE 9202720-0  
24 <151> PRIOR FILING DATE: 1992-09-21  
26 <160> NUMBER OF SEQ ID NOS: 17  
28 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
30 <210> SEQ ID NO: 1  
31 <211> LENGTH: 20  
32 <212> TYPE: PRT  
33 <213> ORGANISM: Staphylococcus aureus  
35 <400> SEQUENCE: 1  
36 Ile Val Thr Lys Asp Tyr Ser Lys Glu Ser Arg Val Asn Glu Asn Ser  
37 1 5 10 15  
38 Lys Tyr Gly Thr  
39 20  
42 <210> SEQ ID NO: 2  
43 <211> LENGTH: 20  
44 <212> TYPE: PRT  
45 <213> ORGANISM: Staphylococcus aureus  
47 <400> SEQUENCE: 2  
48 Ile Val Thr Lys Asp Tyr Ser Lys Glu Ser Arg Val Asn Glu Lys Ser  
49 1 5 10 15  
50 Lys Lys Gly Ala  
51 20  
54 <210> SEQ ID NO: 3  
55 <211> LENGTH: 20  
56 <212> TYPE: PRT  
57 <213> ORGANISM: Staphylococcus aureus  
59 <400> SEQUENCE: 3  
60 Ile Val Thr Lys Asp Tyr Ser Gly Lys Ser Gln Val Asn Ala Gly Ser  
61 1 5 10 15  
62 Lys Asn Gly Thr  
63 20

ENTERED

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66 <210> SEQ ID NO: 4
67 <211> LENGTH: 20
68 <212> TYPE: PRT
69 <213> ORGANISM: Staphylococcus aureus
71 <400> SEQUENCE: 4
72 Ile Val Thr Lys Asp Tyr Ser Gly Lys Ser Gln Val Asn Ala Gly Ser
73 1 5 10 15
74 Lys Asn Gly Thr
75 20
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 20
80 <212> TYPE: PRT
81 <213> ORGANISM: Staphylococcus aureus
83 <400> SEQUENCE: 5
84 Ser Glu Gly Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His
85 1 5 10 15
86 Asn Ile Val Glu
87 20
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 8
92 <212> TYPE: PRT
93 <213> ORGANISM: Staphylococcus aureus
95 <400> SEQUENCE: 6
96 Met Tyr Pro Glu Lys Lys Pro Val
97 1 5
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 408
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: nucleotide sequence for fibrinogen-binding protein
108 <400> SEQUENCE: 7
109 gagcgaagga tacggtccaa gagaaaagaa accagtgagt attaatacaca atatcgtaga 60
110 gtacaatgat ggtacttttta aatatcaatc tagaccacaaa tttaactcaa caccataaata 120
111 tattaaattc aaacatgact ataatatattt agaattttaac gatggtacat tcgaatatgg 180
112 tgcacgtcca caatttaata aaccagcagc gaaaactgat gcaactatta aaaaagaaca 240
113 aaaattgatt caagctcaaa atcttgtgag agaatttgaa aaaacacata ctgtcagtg 300
114 acacagaaaa gcacaaaagg cagtcaactt agtttcgttt gaatacaaaag tgaagaaaaat 360
115 ggtcttacaa gagcgaattg ataatgtatt aaaacaagga ttagtgag 408
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 136
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: fibrinogen-binding protein
125 <400> SEQUENCE: 8
126 Asp Glu Gly Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His
127 1 5 10 15
128 Asn Ile Val Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro

```

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129          20          25          30
130 Lys Phe Asn Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn
131          35          40          45
132 Ile Leu Glu Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln
133          50          55          60
134 Phe Asn Lys Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln
135 65          70          75          80
136 Lys Leu Ile Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His
137          85          90          95
138 Thr Val Ser Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser
139          100          105          110
140 Phe Glu Tyr Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn
141          115          120          125
142 Val Leu Lys Gln Gly Leu Val Arg
143          130          135

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146 &lt;210&gt; SEQ ID NO: 9

147 &lt;211&gt; LENGTH: 1009

148 &lt;212&gt; TYPE: DNA

149 &lt;213&gt; ORGANISM: Artificial Sequence

151 &lt;220&gt; FEATURE:

152 &lt;223&gt; OTHER INFORMATION: fib protein

W--&gt; 154 &lt;221&gt; NAME/KEY: CDS

155 &lt;222&gt; LOCATION: (157)...(654)

W--&gt; 157 &lt;221&gt; CDS

158 &lt;222&gt; LOCATION: (804)...(1007)

W--&gt; 160 &lt;400&gt; 9

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161 gactagtgtgta taagtgtctga tgagtcacaa gatagataaac tatattttgt ctatattata 60
162 aagtgttttat agttaattaa taattagtta atttcaaaaag ttgtataaat aggataactt 120
163 aataaatgta agataataat ttggaggata attaac atg aaa aat aaa ttg ata 174
164                                     Met Lys Asn Lys Leu Ile
165                                     1          5
167 gca aaa tct tta tta aca ata gcg gca att ggt att act aca act aca 222
168 Ala Lys Ser Leu Leu Thr Ile Ala Ala Ile Gly Ile Thr Thr Thr Thr
169          10          15          20
171 att gcg tca aca gca gat gcg agc gaa gga tac ggt cca aga gaa aag 270
172 Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly Tyr Gly Pro Arg Glu Lys
173          25          30          35
175 aaa cca gtg agt att aat cac aat atc gta gag tac aat gat ggt act 318
176 Lys Pro Val Ser Ile Asn His Asn Ile Val Glu Tyr Asn Asp Gly Thr
177          40          45          50
179 ttt aaa tat caa tct aga cca aaa ttt aac tca aca cct aaa tat att 366
180 Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn Ser Thr Pro Lys Tyr Ile
181 55          60          65          70
183 aaa ttc aaa cat gac tat aat att tta gaa ttt aac gat ggt aca ttc 414
184 Lys Phe Lys His Asp Tyr Asn Ile Leu Glu Phe Asn Asp Gly Thr Phe
185          75          80          85
187 gaa tat ggt gca cgt cca caa ttt aat aaa cca gca gcg aaa act gat 462
188 Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys Pro Ala Ala Lys Thr Asp
189          90          95          100

```

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```

191 gca act att aaa aaa gaa caa aaa ttg att caa gct caa aat ctt gtg 510
192 Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile Gln Ala Gln Asn Leu Val
193      105      110      115
195 aga gaa ttt gaa aaa aca cat act gtc agt gca cac aga aaa gca caa 558
196 Arg Glu Phe Glu Lys Thr His Thr Val Ser Ala His Arg Lys Ala Gln
197      120      125      130
199 aag gca gtc aac tta gtt tcg ttt gaa tac aaa gtg aag aaa atg gtc 606
200 Lys Ala Val Asn Leu Val Ser Phe Glu Tyr Lys Val Lys Lys Met Val
201 135      140      145      150
203 tta caa gag cga att gat aat gta tta aaa caa gga tta gtg aga taa 654
204 Leu Gln Glu Arg Ile Asp Asn Val Leu Lys Gln Gly Leu Val Arg *
205      155      160      165
207 tacttctgtc attatttttaa gttcaaaaata atttaaatatt atattatttt ttattaataa 714
208 aacgactatg ctattttaatg ccagggttaat gtaactttcc taaaattgac tatataatcg 774
209 ttaagtatca attttaagga gagttttaca atg aaa ttt aaa aaa tat ata tta 827
210      Met Lys Phe Lys Lys Tyr Ile Leu
211      170
213 aca gga aca tta gca tta ctt tta tca tca act ggg ata gca act ata 875
214 Thr Gly Thr Leu Ala Leu Leu Leu Ser Ser Thr Gly Ile Ala Thr Ile
215      175      180      185
217 gaa ggg aat aaa gca gat gca agt agt ctg gac aaa tat tta act gaa 923
218 Glu Gly Asn Lys Ala Asp Ala Ser Ser Leu Asp Lys Tyr Leu Thr Glu
219 190      195      200      205
221 agt cag ttt cat gat aaa cgc ata gca gaa gaa tta aga act tta ctt 971
222 Ser Gln Phe His Asp Lys Arg Ile Ala Glu Glu Leu Arg Thr Leu Leu
223      210      215      220
225 aac aaa tcg aat gta tat gca tta gct gca gga agc tt 1009
226 Asn Lys Ser Asn Val Tyr Ala Leu Ala Ala Gly Ser
227      225      230
230 <210> SEQ ID NO: 10
231 <211> LENGTH: 165
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: fib protein
238 <400> SEQUENCE: 10
239 Met Lys Asn Lys Leu Ile Ala Lys Ser Leu Leu Thr Ile Ala Ala Ile
240 1      5      10      15
241 Gly Ile Thr Thr Thr Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly
242      20      25      30
243 Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His Asn Ile Val
244      35      40      45
245 Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn
246      50      55      60
247 Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn Ile Leu Glu
248 65      70      75      80
249 Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys
250      85      90      95
251 Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile

```

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```

252          100          105          110
253 Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His Thr Val Ser
254          115          120          125
255 Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser Phe Glu Tyr
256          130          135          140
257 Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn Val Leu Lys
258 145          150          155          160
259 Gln Gly Leu Val Arg

```

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260          165
263 <210> SEQ ID NO: 11
264 <211> LENGTH: 68
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: fib protein

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271 <400> SEQUENCE: 11
272 Met Lys Phe Lys Lys Tyr Ile Leu Thr Gly Thr Leu Ala Leu Leu Leu
273 1          5          10          15
274 Ser Ser Thr Gly Ile Ala Thr Ile Glu Gly Asn Lys Ala Asp Ala Ser
275          20          25          30
276 Ser Leu Asp Lys Tyr Leu Thr Glu Ser Gln Phe His Asp Lys Arg Ile
277          35          40          45
278 Ala Glu Glu Leu Arg Thr Leu Leu Asn Lys Ser Asn Val Tyr Ala Leu
279          50          55          60
280 Ala Ala Gly Ser
281 65

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284 <210> SEQ ID NO: 12
285 <211> LENGTH: 781
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: fib gene from strain FDA 486
292 <400> SEQUENCE: 12

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293 atagataact atattttgtc tatattataa agtggtttata gttaattaat aattagttaa 60
294 tttcaaaagt tgtataaata ggataactta ataaatgtaa gataataatt tggaggataa 120
295 ttaacatgaa aaataaattg atagcaaaat ctttattaac aatagcggca attggtatta 180
296 ctacaactac aattgcgtca acagcagatg cgagcgaagg atacggtcca agagaaaaaga 240
297 aaccagtgag tattaatcac aatatcgtag agtacaatga tgggtactttt aaatatcaat 300
298 ctagacaaaa atttaactca acacctaaat atattaaatt caaacatgac tataatatatt 360
299 tagaatttaa cgatggtaca ttcgaatatg gtgcacgtcc acaatttaat aaaccagcag 420
300 cgaaaactga tgcaactatt aaaaaagaac aaaaattgat tcaagctcaa aatcttgtga 480
301 gagaatttga aaaaacacat actgtcagtg cacacagaaa agcacaaaag gcagtcaact 540
302 tagtttcggt tgaatacaaaa gtgaagaaaa tgggtcttaca agagcgaatt gataatgtat 600
303 taaaacaagg attagtgaga taatacttct gtcattattt taagttcaaa ataatttaat 660
304 attatatatt tttttattaa taaaacgact atgctattta atgccagggt aatgtaactt 720
305 tcctaaaatt gactatataa tcgttaagta tcaattttta ggagagttaa caatgaaatt 780
306 t

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308 <210> SEQ ID NO: 13
309 <211> LENGTH: 785

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**VERIFICATION SUMMARY**

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TIME: 11:17:55

Input Set : A:\012889-086.ST25.txt

Output Set: N:\CRF4\09302003\I938497A.raw

L:154 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:157 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9